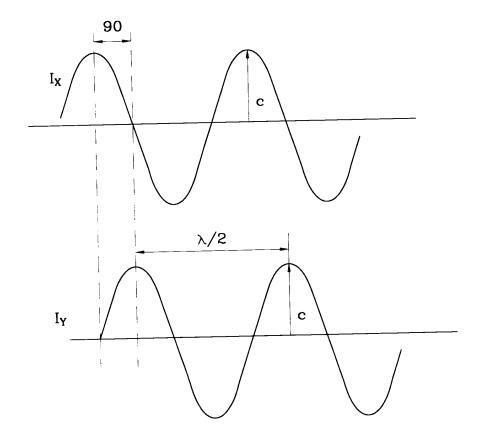


EIC: J

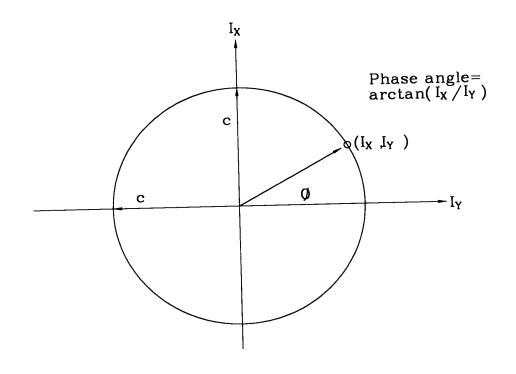
FIG.2

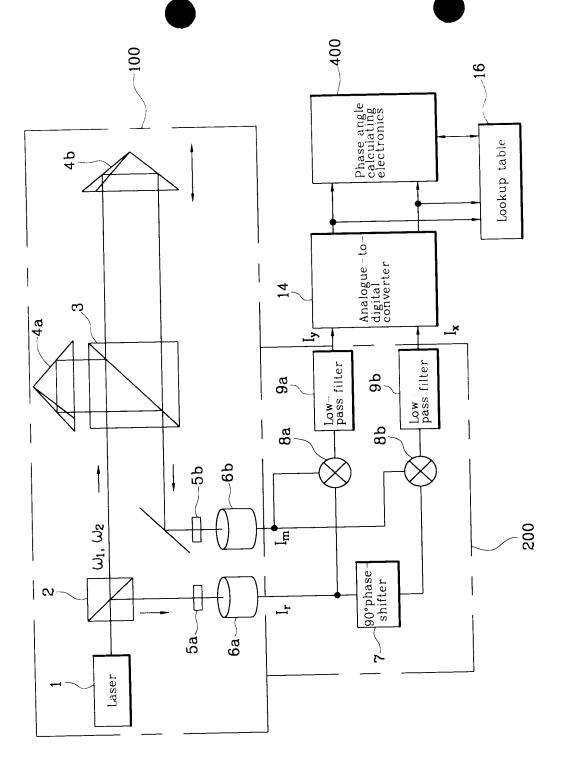


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FIG.3





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FIG.6

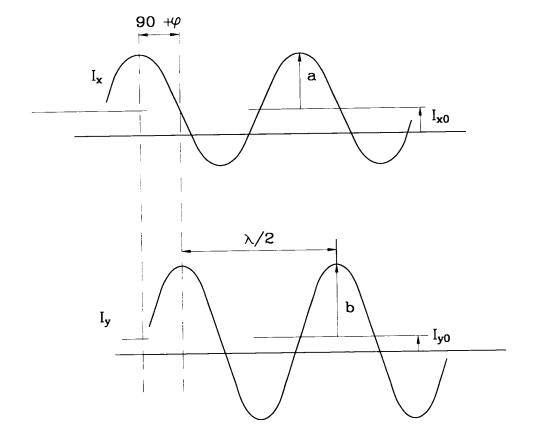
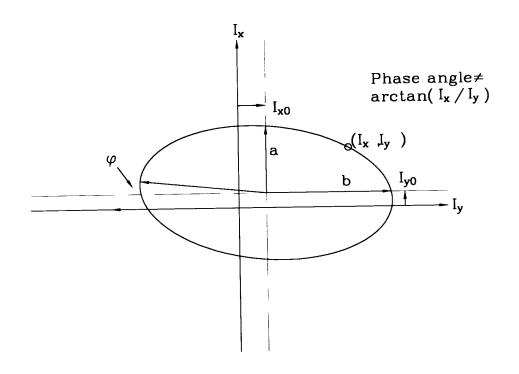


FIG.7



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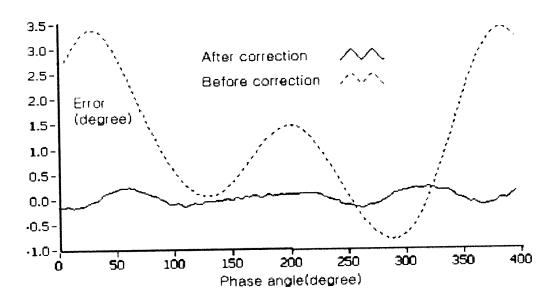


FIG.9

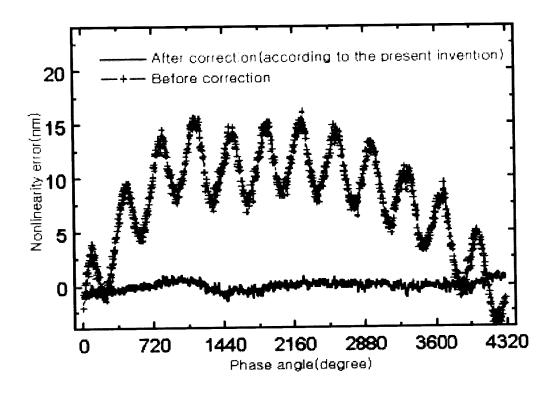


FIG.1

1: Laser

7: 90° phase shifter

9a:Low-pass filter

9b: Low-pass filter

400: Phase angle calculating electronics

FIG.2

FIG.3

Phase angle = $arctan(I_x/I_y)$

FIG.4

1: Laser

7: 90° phase shifter

16: Lookup table

9a: Low-pass filter

9b: Lcw-pass filter

400: Phase angle calculating electronics

FIG.5

Laser

7: 90 phase shifter

9a: Low-pass filter

9b: Low-pass filter

10: Phase angle calculating electronics

11a: Offset adjustment means

11b: Offset adjustment means

14: Analogue-to-digital converter 15: Digital-to-analogue converter 17: Microprocessor FIG.6 FIG.7 Phase angle \pm arctan(I_x/I_y) FIG.8 **_1**0 Error(degree) Phase angle(degree) After correction Before correction FIG.9 Nonlinearity error Phase angle(degree) After correction(according to the present invention)

Before correction

12a: Amplitude adjustment means

12b: Amplitude adjustment means

13: Phase adjustment means